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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1-10. (canceled).

11. (currently amended): A sterile microorganism growth substrate comprising:

(a) a sterilized nutrient composition, wherein said composition is a biomass generated

from bacterial cells by autolysis, optionally followed by ultrafiltration and evaporation, wherein

said bacterial cells comprise Methylococcus capsulatus (Bath) (strain NCIMB 41526), Ralstonia

sp. DB3 (strain NCIMB 41527), Aneurinibacillus sp. DB4 (strain NCIMB 41528) and

Brevibacillus agri DB5 (strain NCIMB 41525), and wherein said bacterial cells are at least 50%

by weight Methylococcus capsulatus (Bath) (strain NCIMB 41526) relative to the total bacterial

weight;

(b) at least one sterile nutrient, which is a carbon source, added to the biomass,

wherein said at least one sterile nutrient is glucose; and

(c) optionally a sterile diluent.

12. (canceled).

13. (previously presented): The substrate as claimed in claim 11, wherein glucose is

present in a weight ratio of 5:1 to 1:5, on a dry mass basis relative to the biomass.

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14. (previously presented): The substrate as claimed in claim 35, wherein nitrate and mineral salts are present in a weight ratio of 0.01:1 to 0.2:1, relative to the biomass.

15-24. (canceled).

25. (previously presented): The substrate as claimed in claim 35, wherein said mineral salts are selected from the group consisting of potassium, calcium, magnesium, sodium, molybdenum, iron, zinc, boron, cobalt, manganese and nickel compounds.

- 26. (previously presented): The substrate as claimed in claim 13, wherein glucose is present in a weight ratio of 2:1 to 1:2, on a dry mass basis relative to the biomass.
- 27. (previously presented): The substrate as claimed in claim 14, wherein nitrate and mineral salts are present in a weight ratio of 0.05:1 to 0.1:1, relative to the biomass.

28-29. (canceled).

30. (previously presented): The substrate as claimed in claim 11, wherein the sterilized nutrient composition is a dried autolysate of a bacterial biomass.

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 (previously presented): The substrate as claimed in claim 11 or 37, wherein said bacterial cells are grown in a culture medium containing methane, oxygen, ammonia, and

mineral feeds

32. (canceled).

33. (currently amended): The substrate as claimed in claim 3231, wherein said

eulture bacterial cells is from are 75% to 95% by weight Methylococcus capsulatus (Bath) (strain

NCIMB 41526) relative to the total bacterial weight.

34. (canceled).

35. (previously presented): The substrate of claim 11 or 37, wherein nitrate or

mineral salts, or combination thereof, are additionally added to the biomass.

36. (canceled).

37. (currently amended): A sterile microorganism growth substrate comprising:

(a) a sterilized nutrient composition, wherein said composition is a biomass generated

from bacterial cells by autolysis followed by ultrafiltration and evaporation, wherein said

bacterial cells comprise Methylococcus capsulatus (Bath) (strain NCIMB 41526), Ralstonia sp.

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DB3 (strain NCIMB 41527), Aneurinibacillus sp. DB4 (strain NCIMB 41528) and Brevibacillus agri DB5 (strain NCIMB 41525), and wherein said bacterial cells are at least 50% by weight Methylococcus capsulatus (Bath) (strain NCIMB 41526) relative to the total bacterial weight;

- (b) at least one sterile nutrient, which is a carbon source, added to the biomass, wherein said at least one sterile nutrient is glucose; and
 - (c) optionally a sterile diluent.